

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 56572

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Item ID: D6014-090

Accept

Revision ID:

Item Name: ALUMINUM EXTRUSION

Start Date: 3/2/2010 Start Qty: 40.00

Required Date: 3/15/2010 Req'd Qty: 40.00

Reference:

Cust Item ID:

Customer:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130



HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

Memo

0.00

140



QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

150



Packaging

Packaging

Identify as per dwg & Stock Location: 416

0.00

Memo

0.00

10-6-7-29

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Picklist Print

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Work Order ID: 56572



Parent Item: D6014-090



Parent Item Name: ALUMINUM EXTRUSION



Start Date: 3/2/2010

Required Date: 3/15/2010

Comments: IPP A ☐ 05.08.31 ☐ New issue ☐ KJ/JLM ☐

Start Qty: 40.00

Required Qty: 40.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D6014-090P  ALUMINUM EXTRUSION		Purchased	No			110	Each	0.0000	40.0000 28 			

Car 10/6/09 (29)

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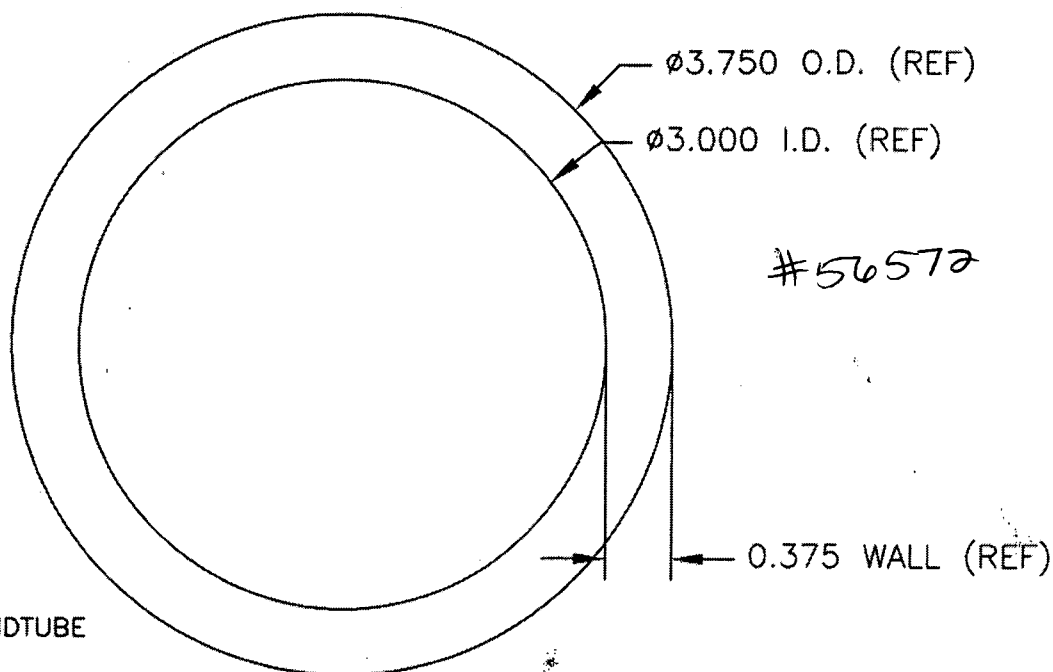
NOTE: Date & initial all entries

DART

DESIGN PH	DRAWN BY PH	DART AEROSPACE USA, INC. PORT HADLOCK, WA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D6014	REV. A SHEET 1 OF 1
DATE 05.03.18		TITLE SKIDTUBE MATERIAL	SCALE 1:1
A	05.03.18	NEW ISSUE	

RELEASED
050809

SPECIFICATION CONTROL DRAWING



NOTES

- 1) D6014-XXX SKIDTUBE
LENGTH

WHERE XXX IS LENGTH IN INCHES
EG. 64" LONG TUBE: D6014-064

- 2) MATERIAL: 3.750 OD x 0.375 WALL 7075-T73/T73510/T73511 PER QQ-A-200/11
SEAMLESS ALUMINUM TUBE.
MINIMUM ULTIMATE TENSILE STRENGTH = 68 ksi
MINIMUM YIELD TENSILE STRENGTH = 57 ksi
- 3) TOLERANCES ARE PER ASTM B210 AS FOLLOWS:
O.D.: ± 0.008 MEAN (± 0.016 INCLUDING OVALITY)
WALL: ± 0.015 MEAN (± 0.038 INCLUDING ECCENTRICITY)
LENGTH: XXX $+0.188/-0.000$
STRAIGHTNESS: 0.010" DEVIATION / 12" LENGTH
- 4) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 5) CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

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Boxmarking:

We hereby declare that the wooden packing material are totally free from bark and apparently

free from live plant pests

S:\VERSAND\USA_Packliste\35783_1

Abnahmeprüfzeugnis 3.1 - DIN EN 10204:2005

Inspection Certificate 3.1 - DIN EN 10204:2005 / Certificat de Reception 3.1- DIN EN 10204:2005

Kunde: Dart Aerospace Ltd.
Client:

1270 Aberdeen Street
K6A1K7 Hawkesbury, ON Canada

Zeugnisnummer: 670/10

Cert No.: / No. du certificat:

Bestellnummer: PO11449

Order No. / No. de commande

Auftrag: 35783/1

Our Reference/Notre Ref.:

Produkt: Rohre nahtlos gepresst

Product / Produit: Tubes seamless extruded Tubes file sur aiguille

Spezifikation: AMS - QQ - A - 200/11E; -; Spezifikation Dart
Specification: Aerospace D6014

Werkstoff: EN AW-7075

Alloy/Alliage: 3.4365

Zustand: T 73511

Temper/État

Abmessung: 3,750 INCH x 3,000 INCH x 0,375 INCH x 90,000 INCH

Size / Dimension: D6014-090 3.750 X 0.375 X 90

Kennzeichnung: ALUnna-Cert No.670/10-7075-T73511-Cast No.3370-Ams-QQ-A-200/11-3.750" Od X 0.375" Wall-Heat lot

Marking/Marquage: No.400402-Alunna Order Conf No.35783/1-1-P.O.11449

Lieferung: Stück/pcs. kg/kgs

Delivered Material / Matériel délivre: 29 478,00

1. Chemische Analyse Chemical Analysis / analyse chimique

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Zr	Bi	Sn	Ni
Charge/ min.			1,2		2,1	0,18	5,1						
Cast No. max.	0,40	0,50	2,0	0,30	2,9	0,28	6,1	0,20					
3370/09	0,128	0,247	1,412	0,074	2,412	0,200	5,738	0,046	0,003	0,0281	0,0001	0,0013	0,0050

Elemente ohne Angabe < 0,01 % / Elements without indication < 0,01 % Products are in accordance with applicable RoHS

2. Mechanische Eigenschaften Mechanical Properties / Valeurs Mécaniques

Anforderungen Specification	Rm N/mm ²	Rp0,2 N/mm ²	A %	A 50 %	HB	Heat No.
min:	469	393				
max:						
1	536	469 → 68 ksi		10,0		400402 - 29 pcs.
2	533 77 ksi	471		10,0		

RMS outside 25 max. 16,1 μ"

Ergebnis der Prüfungen: Es wird bestätigt, daß die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellannahme entspricht

Test results: We confirm that the delivery has been tested and applies to the agreements made on receipt of the order

Resultats: Nous confirmons que la livraison a été contrôlée et correspond avec les conventions faites à la réception de la commande

KrampeR
12.05.2010



Zertifiziert nach DIN EN ISO 9001:2000 u. DIN EN 9100:2003

gültig bis 2010-11-11

Zertifikat- Register- Nr.: 001959 QM; 001959 ASH

Aluminiumwerk Unna AG, Uelzener Weg 36, 59425 Unna, Germany



Abnahmebeauftragter

$$\frac{466 \text{ N}}{\text{mm}^2} \times \frac{25.4^2 \text{ in}^2}{\text{mm}^2} \times \frac{2.205 \text{ lb}}{\text{kg}} = 261 \text{ lb}$$